

## Patent Abstracts of Japan

PUBLICATION NUMBER : 62028581  
PUBLICATION DATE : 06-02-87

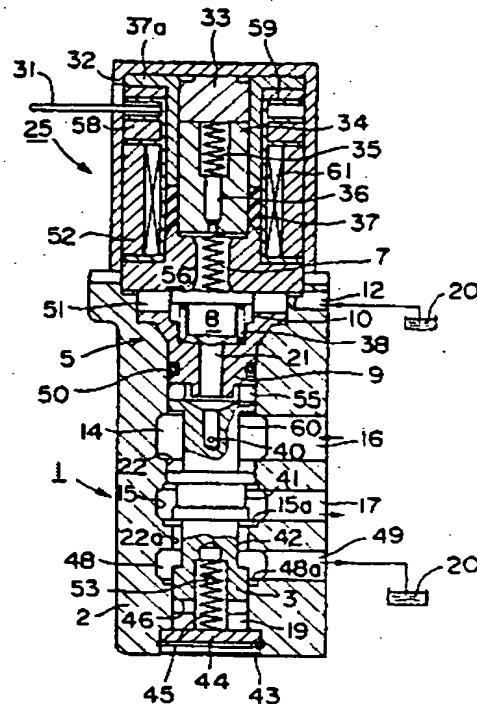
APPLICATION DATE : 26-07-85  
APPLICATION NUMBER : 60165086

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INT.CL. : F16K 17/10 F16K 31/42

TITLE : PRESSURE CONTROL VALVE



**ABSTRACT :** **PURPOSE:** To permit a secondary pressure to be controlled continuously, by applying force of a spring from a plunger to a poppet valve in accordance with exciting current of an electromagnetic actuator so that a pilot pressure acting on an end surface of a stepped spool is changed.

**CONSTITUTION:** Force of a spring 7 from a plunger 34 is applied to a poppet valve 8 in accordance with exciting current of an electromagnetic actuator 25, whereby the poppet valve is displaced to a position where a pilot pressure acting on an end surface of a stepped spool 3 balances with force of a return spring 45. As a result, the pilot pressure  $p_c$  changes linearly in accordance with exciting current of an electromagnetic coil 61 and a stepped spool 36 is also displaced in accordance with the pilot pressure  $p_c$ . When an amount of the displacement is large, a pressure reducing ratio decreases so that a pressure  $P_2$  at an outlet 17 proportionally decreases.

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